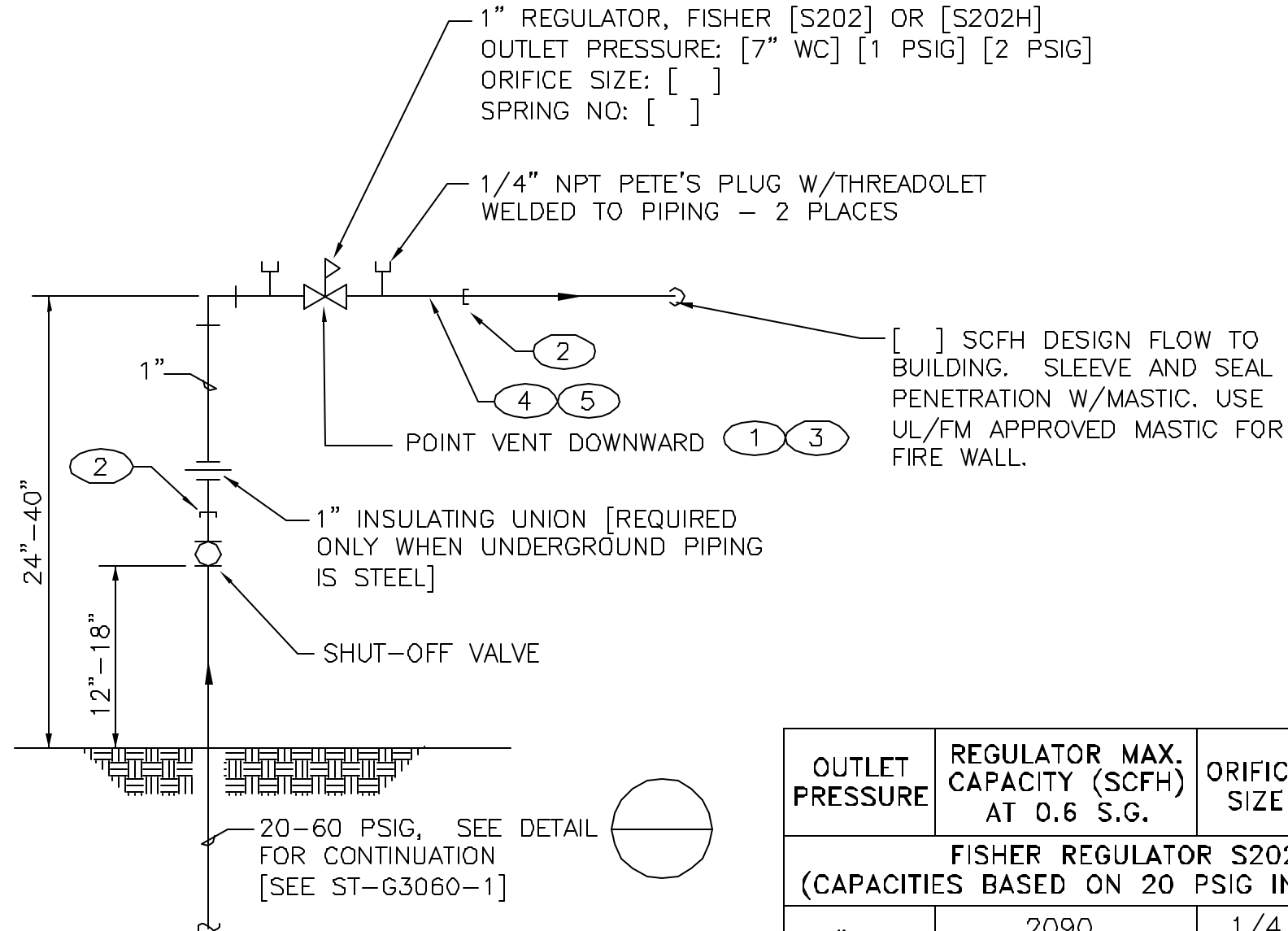


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## GAS REGULATOR STATION DETAIL

SCALE: NONE

### NOTES FOR DESIGNER:

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

- SEE SHEET 5.
- VERIFY NATURAL GAS INLET PRESSURE AND SIZE REGULATOR ACCORDINGLY.

### KEYED NOTES:

- LANL'S SUPPORT SERVICES SUBCONTRACTOR (SSS) WILL FURNISH, INSTALL, AND ADJUST PRESSURE OF GAS REGULATOR.
- CONTRACTOR SHALL TERMINATE PIPING WITH A THREADED CAP OR PLUG AND ALLOW SUFFICIENT HORIZONTAL SPACE, 5-10 FEET, BETWEEN TERMINATION POINTS FOR INSTALLATION OF REGULATOR STATION.
- LOCATE REGULATORS NOT LESS THAN 10 FEET HORIZONTALLY FROM INTAKE AIR DEVICES (LOUVERS, FANS, ETC).
- BOND ABOVE GROUND PIPING TO ELECTRICAL GROUNDING SYSTEM. BOND TO GAS PIPING AT SUITABLE LOCATION DOWNSTREAM OF REGULATOR AND UPSTREAM OF GAS APPLIANCE SHUT-OFF VALVE. COMPLY WITH NEC.
- BOND GAS PIPING LOCATED WITHIN 6 FEET OF A LIGHTNING PROTECTION CONDUCTOR TO THE CONDUCTOR PER NFPA 780. BOND TO GAS PIPING AT SUITABLE EXTERIOR LOCATION DOWNSTREAM OF REGULATOR.

DRAWING DEVELOPED FOR ML-3 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

OUTLET PRESSURE	REGULATOR MAX. CAPACITY (SCFH) AT 0.6 S.G.	ORIFICE SIZE	SPRING NUMBER
FISHER REGULATOR S202 (CAPACITIES BASED ON 20 PSIG INLET PRESSURE)			
7" WC	2090 4340	1/4 3/8	ID8927-27012 (BLACK)

FISHER REGULATOR S202H (CAPACITIES BASED ON 20 PSIG INLET PRESSURE)			
1 TO 2 PSIG	2060 4270	1/4 3/8	IH9758-27032 (DARK BLUE)
1 1/2 TO 3 3/4 PSIG	2020 4200	1/4 3/8	1H9759-27032 (ORANGE)
2 TO 5 PSIG	1980 4100	1/4 3/8	IP6154-27142 (YELLOW)

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NO	DATE	CLASS REV	DESCRIPTION	OWN	VER	CHKD	SUB	APP
<b>FACILITY &amp; WASTE OPERATIONS SYSTEMS ENGINEERING &amp; MAINTENANCE</b>								
LANL ENGINEERING MANUAL				DRAWN	R.PEARSON			
GAS REGULATOR STATION DETAIL SINGLE STAGE, HIGH FLOW				DESIGN	J.GONZALES			
BLDG. X				CHECKED	M.SMITHDR			
SUBMITTED				DATE	D-28-99			
DISCIPLINE POC: E. HOTH				APPROVED FOR RELEASE	STANDARDS MANAGER: TOBIN GRUCH			
Los Alamos NATIONAL LABORATORY				SHEET		4		
PO Box 1663 Los Alamos, New Mexico 87545				4 of		5		
CLASSIFICATION U				REVIEWER	LARRY BAYS	DATE		REV
PROJECT ID				DRAWING NO		CHAPTER 3		ST-G3060-2
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